Serial No. 10/582,149

Atty. Doc. No. 2003P08284WOUS

Amendments to the Claims:

1 - 18 (canceled)

19. (currently amended) A metallic protective layer, comprising:

11.5 to 20.0 % chromium (wt%);

0.3 to 1.5 % silicon (wt%);

0.0 to less than 1.0 % aluminum (wt%);

0.0 up to 0.7 % (wt%) yttrium (wt%) or of at least one metal selected from the group consisting of scandium and the rare earth elements; and remainder iron and production-related impurities.

- 20. (currently amended) The metallic protective layer as claimed in claim 19, further comprising 0.0 up to 0.7 % yttrium (wt%) and at least one metal-selected from the group consisting of scandium and the rare earth elements.
- 21. (previously presented) The metallic protective layer as claimed in claim 20, wherein the metallic protective layer comprises:

12.5 to 14.0% chromium;

0.5 to 1.0% silicon;

0.1 to 0.5% aluminum.

22. (currently amended) A layer system, comprising:

a metallic substrate; and

a metallic protective layer comprising:

11.5 to 20.0 % chromium (wt%),

0.3 to 1.5 % silicon (wt%),

0.0 less than to 1.0 % aluminum (wt%),

0.0 uo to 0.7 % (wt%) yttrium (wt%) and of at least one metal selected from the group consisting of scandium and the rare earth elements, and remainder iron and production-related impurities.

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- 23. (previously presented) The layer system as claimed in claim 22, wherein the substrate is ceramic or an iron-base, nickel-base or cobalt-base superalloy.
- 24. (previously presented) The layer system as claimed in claim 23, wherein the metallic protective layer is ferritic.
- 25. (previously presented) The layer system as claimed in claim 24, wherein the metallic protective layer and the substrate are ferritic and the protective layer bonds to the substrate by adhesion.
- 26. (previously presented) The layer system as claimed in claim 25, wherein the layer system is not diffusion treated.
- 27. (previously presented) The layer system as claimed in claim 26, wherein the coefficients of thermal expansion of the ferritic protective layer and of the ferritic substrate are within 10% of each other.
- 28. (currently amended) The layer system as claimed in claims claim 27, wherein the substrate is 1% CrMoV steel or a 10 to 12% chromium steel.
- 29. (currently amended) The layer system as claimed in elaims <u>claim</u> 27, wherein the substrate is selected from the group consisting of: 30CrMoNiV5-11, 23CrMoNiWV8-8, G17CrMoV5-10, G17CrMo9-10, X12CrMoWVNbN10-1-1, GX12CrMoWVNbN10-1-1, and GX12CrMoVNbN9-1 a 1% CrMoV steel or a 10% to 12% chromium steel.
- 30. (previously presented)The layer system as claimed in claim 29, wherein a zirconium oxide based thermal barrier coating is applied to the metallic protective layer to form a turbine component.

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- 31. (previously presented) The layer system as claimed in claim 30, wherein the turbine component is selected from the group consisting of: a turbine blade, a turbine vane, a housing part, a region of a housing, and a combustion chamber lining.
- 32. (previously presented) The layer system as claimed in claim 31, wherein the protective layer thickness is between 100 μ m and 300 μ m.
- 33. (currently amended) The layer system as claimed in <u>claim</u> 32, wherein the layer system is suitable for exposure to a temperature of up to 950°C.
- 34. (currently amended) A high temperature gas turbine component, comprising: a metallic or ceramic substrate; and a metallic protective layer comprising:

11.5 to 20.0 % chromium (wt%),

0.3 to 1.5 % silicon (wt%),

0.0 less than to 1.0 % aluminum (wt%),

0.0 up to 0.7 % (wt%) yttrium (wt%) and of at least one metal selected from the group consisting of scandium and the rare earth elements, and remainder iron and impurities.

- 35. (previously presented) The component as claimed in claim 34, wherein the component substrate is a iron-based, nickel-based or cobalt-based super alloy.
- 36. (previously presented) The component as claimed in claim 35, wherein the component is selected from the group consisting of: a turbine blade, a turbine vane, a housing part, a region of a housing, and a combustion chamber lining.
- 37. (previously presented) The component as claimed in claim 36, wherein the metallic protective layer thickness is between 100 μ m and 300 μ m.

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38. (previously presented) The component as claimed in claim 37, wherein the metallic protective layer comprises:

12.5 to 14.0% chromium;

0.5 to 1.0% silicon;

0.1 to 0.5% aluminum.